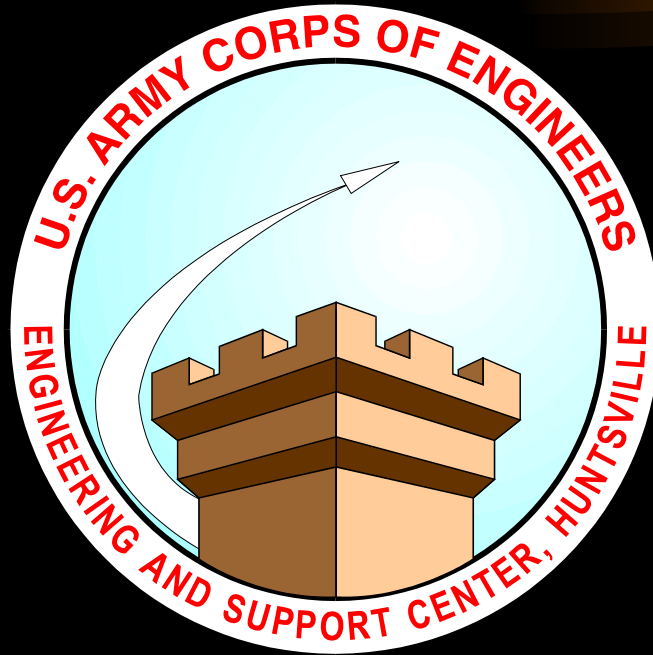


HUNTSVILLE CENTER BRIEFING



Spring Valley Update

Historical Review



- 661 acre site
- WWI-era CWM Research & Development Station
- Current Property owners:
 - 1,200+ Individual homeowners
 - Embassies
 - American University (AU) (70 acres)

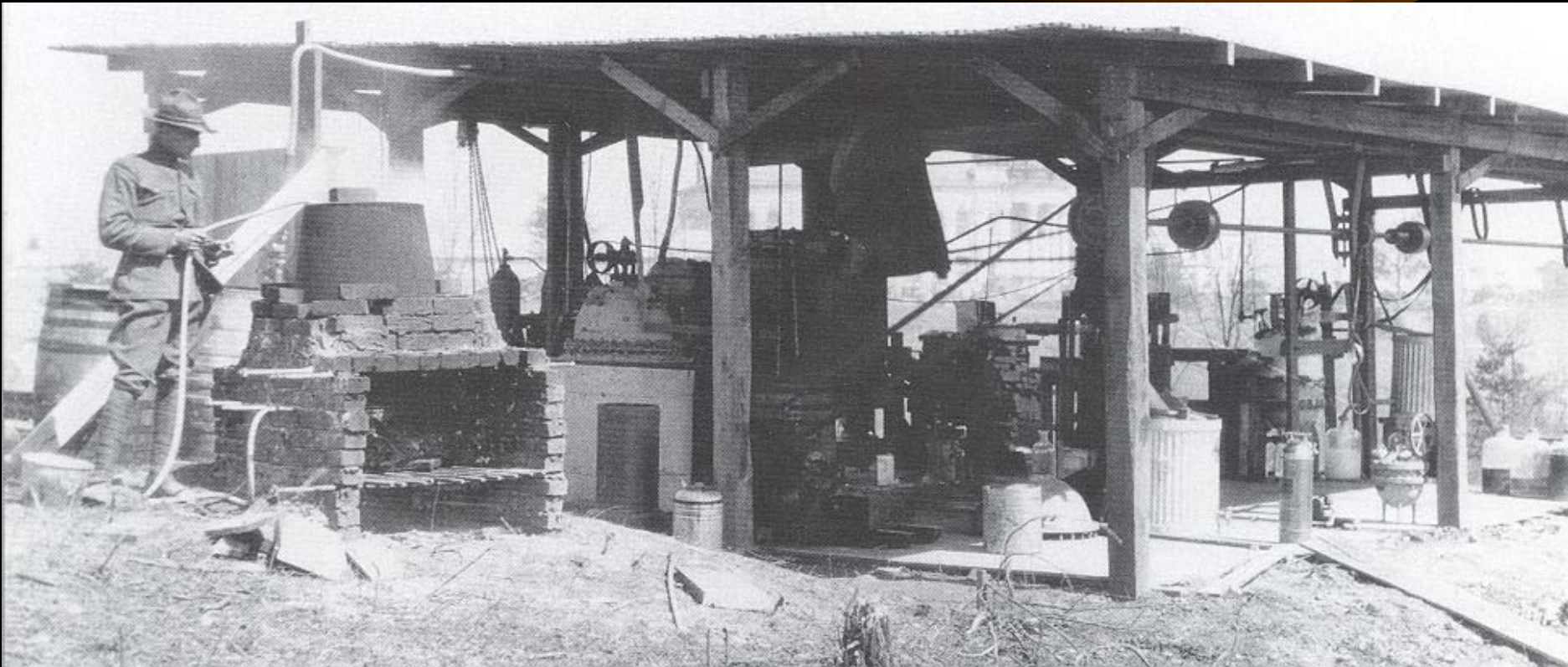
Hamilton Hall, ca. 1918



Training Trenches



Distillation Process Station



Apparent Disposal Pit

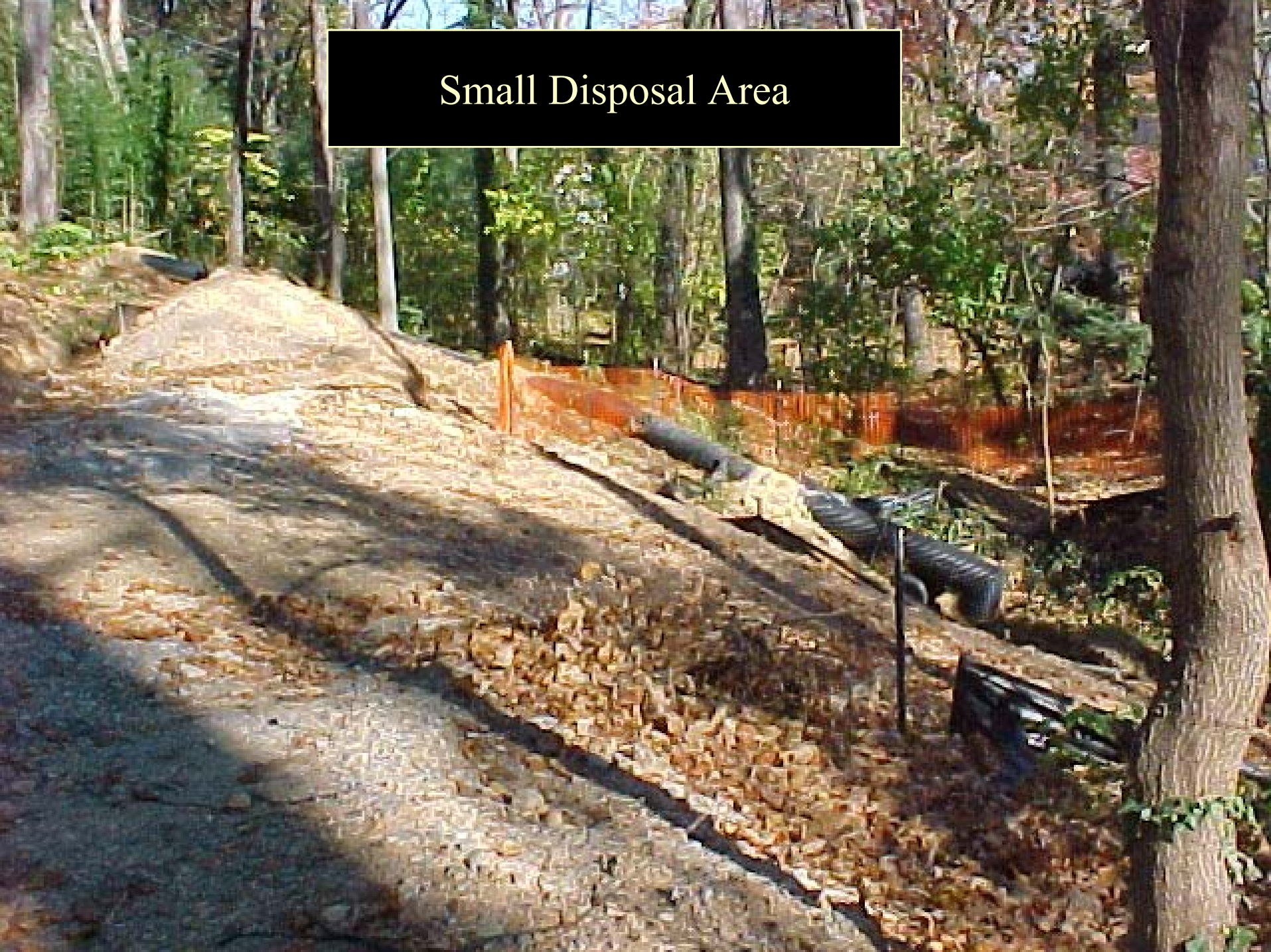


2001 Site Activities



- Small Disposal Area
 - Investigated Potential Glassware Disposal Area
 - January 8 –11, 2001
 - No CWM recovered
 - Arsenic contaminated soil removed

Small Disposal Area





Glassware dating 1903 – 1940
found at Surface
No CWM recovered
Arsenic-contaminated Soil Removed

2001 Site Activities



- 4825 Glenbrook Rd
 - Property adjacent to Korean Ambassador, where two pits were investigated 1999-2000
 - May 2001 began search for additional pit at 4825
 - Dug 36 test pits
 - Performed w/ filtered tent
 - Discovered one burial pit

2001 Site Activities



- 4825 Glenbrook Rd Burial Pit
 - Removed over 328 rounds
 - 116 scrap, 202 awaiting assessment
 - 42 intact bottles
 - Chemical agents detected inside containment and in bottles
 - Replaced filtered tent with Vapor Containment Structure

Engineering Controls



Filtered Tent

Vapor Containment Structure





Filters







Holding Area



- Assessment and interim holding of OE/CWM items
- Located on USACE property, within site
- Due to number of items found, adding additional AHF

Holding Area

ASPHALT
ROAD

MHF

AHF

IHF

TENT

PERS
ENTRY
GATE

GATE

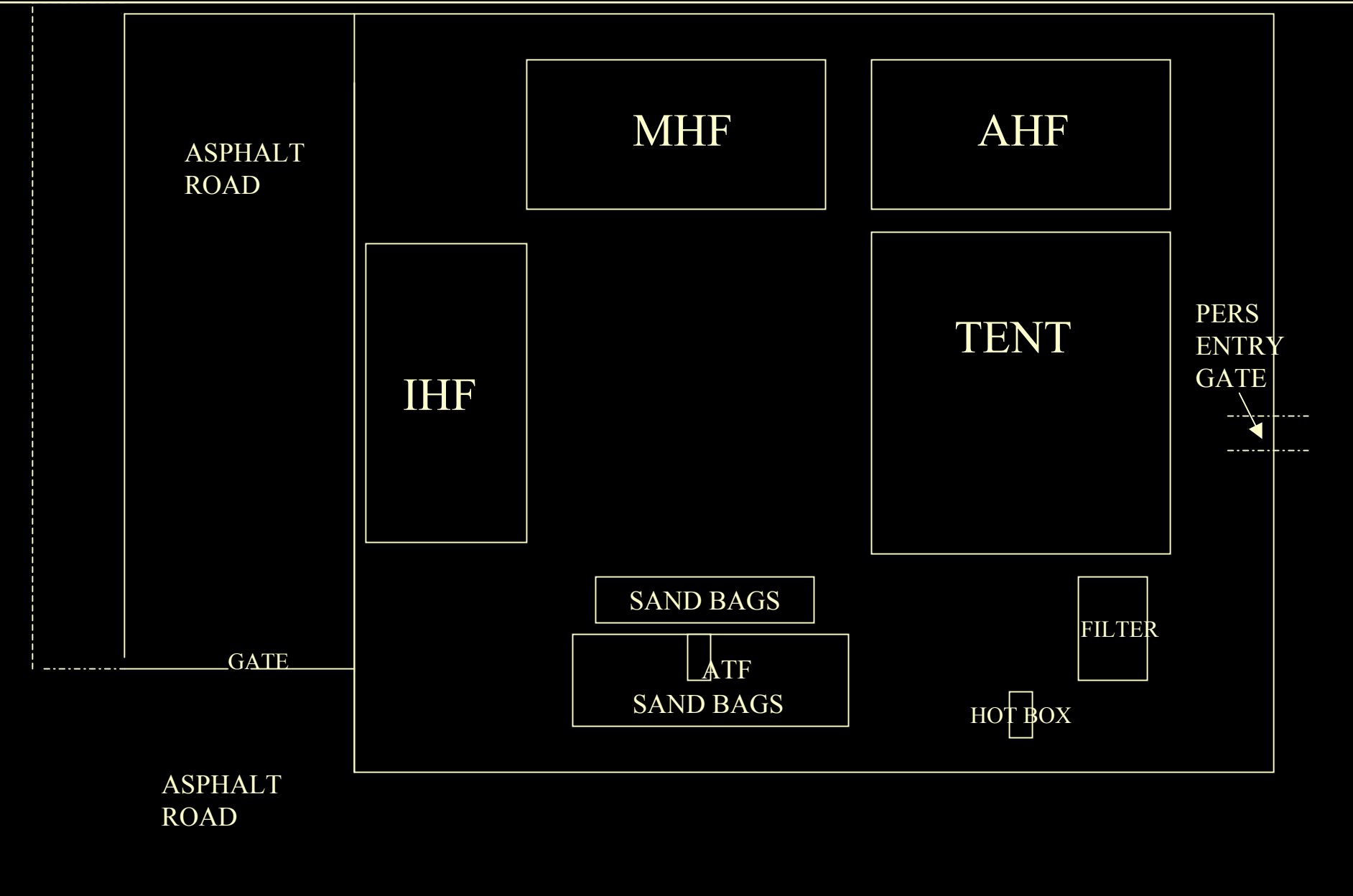
SAND BAGS

ATF
SAND BAGS

FILTER

HOT BOX

ASPHALT
ROAD







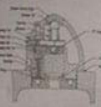




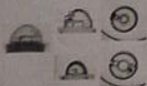


Mobile Munitions Assessment System

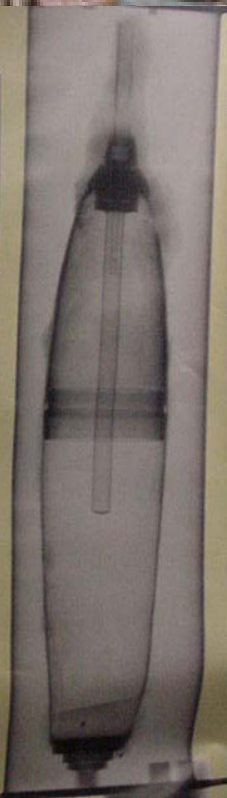
This sketch of a fuse from a 2" mortar indicates where pin positions are prior to detonation. Radiographs and various CT images may provide the reviewer with sufficient information to determine the status of the firing train and other key explosive train fuses.



A Spinal CT scan was acquired over a 40mm vertical region of the face shown in the previous slide. A radiograph of the face is shown at left. The 2nd and 3rd columns show a stack of 220 slices derived from the 3D reconstructed image. The 2nd column shows vertical slices (with respect to the radiograph) while the 3rd column shows horizontal slices. Note the line through each CT slice represents the point where the neighbouring slice cuts the image.



- Field-Portable digital radiography and computed tomography has been demonstrated successfully in field applications.
- The initial unit may provide digital radiographs and tomographs of objects up to 12" in diameter and 44" in length.
- For projection radiographs, data acquisition times are on the order of 2-5 minutes for a 30° (vertical) object.
- For 3D tomography, data acquisition times are on the order of 10-15 minutes for regions of interest up to four inches vertically.



Other SV Activities



- Arsenic Sampling & Removal
 - HTW Sampling every property in site (1,200 +)
 - Removal as required
- Geophysical Survey
 - Developing priority scheme to re-evaluate geophysics at selected properties
- Site Wide Safety Submission
 - Sedgwick Trench anomalies next intrusive